

SEQUENCE LISTING

<110> Bublot, et al.

<120> Equine GM-CSF

<130> 454313-2334.1

<140> 09/589,460

<141> 2000-06-07

<150> 60/138,843

<151> 1999-06-10

<160> 9

<170> PatentIn version 3.0

<210> 1

<211> 20

<212> DNA

<213> Artificial

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<223> oligonucleotide primer

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<221> misc_feature

<222> (13)..(13)

<223> nucleotide "y" can be either of the pyrimidine nucleotides "c" or "t"

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tgggcactgt ggycctgcagc

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<223> nucleotide "r" can be either of the purine nucleotides "a" or "g"

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agcatgtgra tgccatc

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 agctcccagg gctagctcct a 21

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 ccctgtttgt acagcttcag g 21

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 tggtgttcag aaggctcagg g 21

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 <221> CDS
 <222> (1)..(432)
 <223> coding sequence of equine GM-CSF gene

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| atg tgg ctg cag aac ctg ctt ctt ctg ggc act gtg gtt tac agc atg | 48 |
| Met Trp Leu Gln Asn Leu Leu Leu Leu Gly Thr Val Val Tyr Ser Met | |
| 1 5 10 15 | |
| ccc gca ccc acc cgc caa ccc agc cct gtc act cgg ccc tgg cag cat | 96 |
| Pro Ala Pro Thr Arg Gln Pro Ser Pro Val Thr Arg Pro Trp Gln His | |
| 20 25 30 | |
| gtg gat gcc atc aag gag gcc ctg agc ctt ctg aac aac agt agt gac | 144 |
| Val Asp Ala Ile Lys Glu Ala Leu Ser Leu Leu Asn Asn Ser Ser Asp | |
| 35 40 45 | |
| act gct gct atc atg aat gaa aca gta gaa gtc gtc tct gaa acg ttt | 192 |
| Thr Ala Ala Ile Met Asn Glu Thr Val Glu Val Val Ser Glu Thr Phe | |
| 50 55 60 | |
| gac gcc gag gag ctg aca tgc ctg cag act cgc ctg aag ctg tac aaa | 240 |
| Asp Ala Glu Glu Leu Thr Cys Leu Gln Thr Arg Leu Lys Leu Tyr Lys | |
| 65 70 75 80 | |
| cag ggc ttg cgg ggc agc ctc atc aag ctc gaa ggc ccc ttg acc atg | 288 |
| Gln Gly Leu Arg Gly Ser Leu Ile Lys Leu Glu Gly Pro Leu Thr Met | |
| 85 90 95 | |
| atg gcc agc cac tac aag cag cac tgc ccc ccc acc ctg gaa act tcc | 336 |
| Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Leu Glu Thr Ser | |
| 100 105 110 | |
| tgt gca acc cag atg atc acc ttc aaa agt ttc aaa aag aac ctg aag | 384 |
| Cys Ala Thr Gln Met Ile Thr Phe Lys Ser Phe Lys Lys Asn Leu Lys | |
| 115 120 125 | |
| gat ttt ctg ttt gag atc ccg ttt gac tgc tgg aag cca gcc cag aag | 432 |
| Asp Phe Leu Phe Glu Ile Pro Phe Asp Cys Trp Lys Pro Ala Gln Lys | |
| 130 135 140 | |
| taa | 435 |

<210> 9
 <211> 144
 <212> PRT
 <213> Equine sp.

<400> 9

Met Trp Leu Gln Asn Leu Leu Leu Leu Gly Thr Val Val Tyr Ser Met
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Pro Ala Pro Thr Arg Gln Pro Ser Pro Val Thr Arg Pro Trp Gln His
20 25 30

Val Asp Ala Ile Lys Glu Ala Leu Ser Leu Leu Asn Asn Ser Ser Asp
35 40 45

Thr Ala Ala Ile Met Asn Glu Thr Val Glu Val Val Ser Glu Thr Phe
50 55 60

Asp Ala Glu Glu Leu Thr Cys Leu Gln Thr Arg Leu Lys Leu Tyr Lys
65 70 75 80

Gln Gly Leu Arg Gly Ser Leu Ile Lys Leu Glu Gly Pro Leu Thr Met
85 90 95

Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Leu Glu Thr Ser
100 105 110

Cys Ala Thr Gln Met Ile Thr Phe Lys Ser Phe Lys Lys Asn Leu Lys
115 120 125

Asp Phe Leu Phe Glu Ile Pro Phe Asp Cys Trp Lys Pro Ala Gln Lys
130 135 140